

Appendix

The Claims as of May 22, 2007

Claim 1 (withdrawn): A pharmaceutical composition comprising a pharmaceutical carrier and at least one compound in isolated or purified form selected from the group consisting of cobaltocene-octomet and stigmastan-3,5,-diene.

Claim 2 (withdrawn): The pharmaceutical composition of claim 1, wherein the compound is cobaltocene-octomet.

Claim 3 (withdrawn): The pharmaceutical composition of claim 1, wherein the compound is stigmastan-3,5,-diene.

Claim 4 (withdrawn): The pharmaceutical composition of claim 1, comprising cobaltocene-octomet, stigmastan-3,5,-diene, and friedelin.

Claim 5 (withdrawn): The pharmaceutical composition of claim 1, further comprising at least one compound selected from the group consisting of α -caryophyllene, β -caryophyllene, caryophyllene oxide, friedelin, cyclododecane, acetic acid, and a terpene.

Claim 6 (withdrawn): The pharmaceutical composition of claim 2, further comprising a terpene or acetic acid.

Claim 7 (withdrawn): The pharmaceutical composition of claim 6, wherein said terpene is β -myrceane.

Claim 8 (withdrawn): The pharmaceutical composition of claim 6, further comprising hexadecanoic acid.

Claim 9 (withdrawn): A pharmaceutical composition comprising a pharmaceutical carrier and at least one compound selected from the group consisting of galoxolide and benzyl salicylate.

Claim 10 (withdrawn): The pharmaceutical composition of claim 9, comprising galoxolide and benzyl salicylate.

Claim 11 (withdrawn): The pharmaceutical composition of claim 9, further comprising at least one compound selected from the group consisting of 3-cyclohexane-1-methanol, camphene, 1,4-cycloprop-azulene, and phytol.

Claim 12 (withdrawn): The pharmaceutical composition of claim 9, wherein the compound is galoxolide.

Claim 13 (withdrawn): The pharmaceutical composition of claim 9, wherein the compound is benzyl salicylate.

Claim 14 (withdrawn): The pharmaceutical composition of claim 9, wherein the compound is α -pinene.

Claim 15 (withdrawn): A pharmaceutical composition comprising a pharmaceutical carrier and at least one compound selected from the group consisting of galoxolide, benzyl salicylate, eucalyptol and α -pinene, wherein the composition has antimycobacterial activity.

Claims 16-25 (canceled)

Claim 26 (withdrawn): A method of inhibiting the growth of a mycobacterium, comprising administering a composition comprising a carrier and at least one compound selected from among cobaltocene-octomet, stigmastan, 3,5-diene, galoxolide, benzyl salicylate, eucalyptol, and α -pinene.

Claim 27 (withdrawn): The method of claim 26, wherein said *M. avium*, *M. bovis*, *M. intracellulare*, *M. kansaii*, *M. leprae*, *M. marinum*, *M. phlie*, *M. scrofulaceum*, *M. smegmatis*, *M. fortuitum*, *M. tuberculosis*, or *M. ulcerans*.

Claim 28 (withdrawn): The method of claim 26, wherein said mycobacterium is in a mammal and said mammal is a human or a bovine.

Claim 29 (withdrawn): The method of claim 28, wherein said composition is administered orally.

Claim 30 (withdrawn): The pharmaceutical composition of claim 15, wherein the compound is eucalyptol.

Claim 31 (withdrawn): The pharmaceutical composition of claim 15, wherein the compound is α -pinene.

Claim 32 (pending): A method of preparing a composition having antimicrobial activity comprising extracting a plant material in an organic solvent to obtain extracted material, contacting the extracted material with a chromatographic separation system, and eluting from the chromatographic separation system with a mobile polar phase to obtain a composition, wherein the plant material is from *Mammea Americana*, *Marchantaceae polymorpha*, or *Callistemon citrinus* and wherein the composition has antimicrobial activity.

Claim 33 (pending): The method of claim 32, wherein said plant is *Mammea Americana mamey Amarillo*.

Claim 34 (withdrawn): The method of claim 32, wherein said plant is *Marchantaceae polymorpha hepatica*.

Claim 35 (withdrawn): The method of claim 32, wherein said plant is *Callistemon citrinus skeels*.

Claim 36 (pending): The method of claim 32, wherein said plant material is from leaves of *Mammea Americana* and said composition comprises at least one compound selected from the group consisting of cobaltocene-octomet and stigmastan-3,5,-diene.

Claim 37 (pending): The method of claim 32, wherein said plant material is from leaves of *Mammea Americana* and said composition comprises cobaltocene-octomet and stigmastan-3,5,-diene.

Claim 38 (pending): The method of claim 36, wherein said composition comprises cobaltocene-octomet.

Claim 39 (pending): The method of claim 36, wherein said composition comprises stigmastan-3,5,-diene.

Claim 40 (pending): The method of claim 36, wherein said composition further comprises at least one compound selected from the group consisting of α -caryophyllene, β -caryophyllene, caryophyllene oxide, friedelin, cyclododecane, acetic acid, and a terpene.

Claim 41 (pending): The method of claim 36, wherein said composition further comprises friedelin.

Claim 42 (withdrawn): The method of claim 32, wherein said plant material is from leaves of *Marchantaceae polymorpha* and said composition comprises cobaltocene-octomet.

Claim 43 (withdrawn): The method of claim 42, wherein said composition further comprises at least one compound selected from the group consisting of β -myrceane, acetic acid, and hexadecanoic acid.

Claim 44 (withdrawn): The method of claim 42, wherein said composition further comprises β -myrceane.

Claim 45 (withdrawn): The method of claim 32, wherein said plant material is from leaves of *Callistemon citrinus* and said composition comprises at least one compound selected from the group consisting of galaxolide, benzyl salicylate, and α -pinene.

Claim 46 (withdrawn): The method of claim 45, wherein said composition further comprises at least one compound selected from the group consisting of eucalyptol, a terpene, 3-cyclohexane-1-methanol, camphene, 1,4-cycloprop-azulene, and phytol.

Claim 47 (pending): The method of claim 32, wherein the organic solvent is methylene chloride.

Claim 48 (pending): The method of claim 32, wherein the antimicrobial activity is against a mycobacterium.

Claim 49 (pending): The method of claim 48, wherein the mycobacterium is *M. avium*, *M. bovis*, *M. intracellulare*, *M. kansaii*, *M. leprae*, *M. marinum*, *M. phlei*, *M. scrofulaceum*, *M. smegmatis*, *M. fortuitum*, *M. tuberculosis*, or *M. ulcerans*.

Claim 50 (new): The method of claim 38, wherein said plant material is from leaves of *Mammea Americana*.

Claim 51 (new): The method of claim 38, wherein said organic solvent is methylene chloride.

Claim 52 (new): The method of claim 50, wherein said organic solvent is methylene chloride.

Claim 53 (new): The method of claim 39, wherein said plant material is from leaves of *Mammea Americana*.

Claim 54 (new): The method of claim 39, wherein said organic solvent is methylene chloride.

Claim 55 (new): The method of claim 53, wherein said organic solvent is methylene chloride.